

United States Patent [19]

Motoyuki et al.

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[54] PROCESS FOR PREPARING 2,6-DIALKYLNAPHTHALENE

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ABSTRACT

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A process for producing 2,6-dialkyl naphthalene from a hydrocarbon feedstock that contains at least one component selected from the group consisting of dialkyl naphthalene isomers, monoalkyl naphthalene isomers, polyalkyl naphthalenes, and naphthalene, is provided that includes the following steps:

Related U.S. Application Data

[63] Continuation-in-part of application No. 08/948,299, Oct. 10, 1997.

[51] Int. Cl.⁷ C07C 1/00; C07C 4/12; C07C 5/22; C07C 2/68

[52] U.S. Cl. 585/323; 585/312; 585/313; 585/314; 585/315; 585/486; 585/489; 585/478; 585/481; 585/449; 585/450; 585/467

[58] Field of Search 585/323, 312, 585/313, 314, 315, 486, 489, 478, 481, 449, 450, 467

- I. separating the hydrocarbon feedstock and/or a dealkylation product fed from step III into a naphthalene fraction, a monoalkyl naphthalene fraction, a dialkyl naphthalene fraction and a remaining products fraction;
- II. separating and purifying 2,6-dialkyl naphthalene from the dialkyl naphthalene fraction of step I;
- III. dealkylating the hydrocarbon feedstock and/or the remaining products fraction of step I and feeding the dealkylation product to step I; and
- IV. alkylating the naphthalene and monoalkyl naphthalene fractions of step I;

wherein the hydrocarbon feedstock is fed to step I or step III.

References Cited

U.S. PATENT DOCUMENTS

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26 Claims, 9 Drawing Sheets

